

Abstract:

Page 26, in the abstract section, replace with the following new abstract paragraph:

--- SPREAD SPECTRUM BASED MULTICHANNEL MODULATION
FOR ULTRA WIDEBAND COMMUNICATIONS

Abstract of the Disclosure

A spread spectrum based multichannel modulation ~~[[UWB]]~~ Ultra-Wideband (UWB) communication transceiver for indoor wireless operations ~~is provided~~ presented according to some embodiments. The spread spectrum based multichannels are orthogonal to each other and allow for an operation in parallel. The UWB ~~system~~ communication transceiver can also avoid ~~[[the]]~~ interference with WLAN 802.11a devices ~~[[at]]~~ in the same environment. In addition, ~~[[The]]~~ the UWB communication transceiver of the present invention can transmit and receive the scalability chip data rates from 650 Mcps ~~[[up]]~~ to 7.15 Gcps.